CEMENT
AND
LIME MANUFACTURE

Published by Concrete Publications Ltd., 14 Dartmouth Street, London, S.W.1

INDEX to VOL. XIII, 1940.

PAGE

Admixtures for cement 180
Air in concrete, Water and, by C. O. Crane... ... 140
,, separation, Fine grinding and, by B. Nordberg 185
Aluminous cement at high and low temperatures, Hardening of, by Steven Gottlieb ... 55
,, cement, British standard specification for 161
,, cement concrete in cold weather ... 85
,, cement, The effect of temperature on, by F. M. Lea 189
American dams, Special cements in Sweden and in, by B. Hellstrom 37
Analysis of Portland cement, Chemical 141
Australian standard specification for Portland cement, Revised 1

AUTHORS:

Allin, R. V., and H. H. Turner on Reinforced Portland cement concrete in cold weather ... 198
Ashkenazi, Dr. Gabriel, on Modern requirements of cement 77
Bates, P. H., on Research on Portland cement .. 177
Bogue, R. H., on Constitution of Portland cement clinker 3
Caghill, W. H., and F. D. DeVaney on Ball mill grinding 67, 89, 101, 128, 145, 163
Cloke, Paul, and W. S. Evans on Testing cement briquettes 207
Comber, A. W., on Magnesite in kiln linings ... 63
Craig, A. E., and C. W. Sweitzer on The use of colloidal carbon in grinding clinker 149
Crane, C. O., on Water and air in concrete ... 140
Curtis, A. J. R., on Effect of cement dust on health 95
Englehart, G. K., on Froth flotation in cement manufacture 98, 113
Evans, W. S., and P. Cloke on Testing cement briquettes 207
Fisk, Henry G., Ph.D., on Refractories for cement kilns 13, 51, 74
Gottlieb, Steven, on Hardening of aluminous cement at high and low temperatures 55
Gottlieb, Steven, on Magnesia bricks for lining cement kilns 19
Gutteridge, H., on The Maastricht Portland cement works, Holland 131
Hellstrom, B., on Special cements in Sweden and in large American dams 37
Lea, F. M., on The effect of temperature on high-alumina cement 189
Lutz, H. E. W., on Calcining Portland cement ... 181
Nordberg, B., on Cooling Portland cement, 86; on Fine grinding and air separation 185

PAGE

Parker, T. W., on Influence of the heat-treatment of Portland cement clinker on the properties of cement 22
Ralston, O. C., on Research on pozzolana ... 99
Rockwood, N. C., on Sampling materials for cement manufacture, 214; on Methods of proportioning raw materials 221
Swearingen, J., on Setting of cement under gas pressure 47
Sweitzer, C. W., and A. E. Craig on The use of colloidal carbon in grinding clinker 149
Turner, H. H., and R. V. Allin on Reinforced Portland cement concrete in cold weather ... 198

Automatic kiln control 48
Ball-mill grinding, by W. H. Caghill and F. D. DeVaney 67, 89, 101, 128, 145, 163
Bricks for lining cement kilns, Magnesia, by Steven Gottlieb 19
Briquettes, Testing cement, by P. Cloke and W. S. Evans 207
Calcining Portland cement, by H. E. W. Lutz ... 181
Carbon in grinding clinker, The use of colloidal, by C. W. Sweitzer and A. E. Craig 149
Cement, Constitution of 80
,, Modern requirements of, by G. Ashkenazi 77
Chemical analysis of Portland cement 141
Clinker, Constitution of Portland cement, by R. H. Bogue 3
,, coolers, Inclined-grate 60
,, Glass in Portland cement 84
,, on the properties of cement, Influence of the heat treatment of Portland cement, by T. W. Parker 22
,, The use of colloidal carbon in grinding, by C. W. Sweitzer and A. E. Craig 149
Coal mills, Direct-firing 204
Cold weather, Concreting in 55, 85
,, weather, Reinforced Portland cement concrete in, by R. V. Allin and H. H. Turner... ... 198
Colloidal carbon in grinding clinker, The use of, by C. W. Sweitzer and A. E. Craig 149
Coolers, Inclined-grate clinker 60
Cooling Portland cement, by B. Nordberg 86
Concrete in cold weather, Reinforced Portland cement, by R. V. Allin and H. H. Turner ... 198
Concreting in cold weather 85
Crystalline and glassy cements, Comparing... ... 100
Dust on health, Effect of, by A. J. R. Curtis ... 95
"Electric eye" for controlling kilns... 48
Filters, Water required in wet process reduced by slurry 183
Fineness of Portland cements... ... ... 144, 179

PAGE

Flotation in cement manufacture, Froth, by G. K. Englehart 98, 113
„ Refining raw materials by... 82
Froth flotation in cement manufacture, by G. K. Englehart 98, 113
Gas pressure, Setting of cement under, by J. Swearingen 47
Glass in Portland cement clinker 84
Glassy cements, Comparing crystalline and 100
Grinding and air separation, Fine, by B. Trondberg... 185
„ Ball-mill, by W. H. Caghill and F. D. De Vaney 67, 89, 101, 128, 145, 163
„ clinker, The use of colloidal carbon in, by C. W. Sweitzer and A. E. Craig ... 149
Hardening of aluminious cement at high and low temperatures, by Steven Gottlieb ... 55
„ of cement 77
Health, Effect of cement dust on, by A. J. R. Curtis 95
Heat of hydration of cement 79
„ treatment of Portland cement clinker on the properties of cement, Influence of the, by T. W. Parker 22
High-alumina cement, B.S.S. for 161
„ cement, The effect of temperature on, by F. M. Lea 189
Holland, The Maastricht Portland cement works, by H. Gutteridge 131
Hydrated lime, British standard specification for ... 12
Inclined-grate clinker coolers 60
Kiln control, Automatic 48
„ linings, Magnesite in, by A. W. Comber ... 63
Kilns, Refractories for cement, by Henry G. Fisk, 13, 51, 74
Laboratory porcelain, British standard tests for ... 162
Lime, British standard specification for hydrated ... 12
Limes, Specification for 125
Linings, Magnesite in kiln, by A. W. Comber ... 63
Low-heat cements 38
Maastricht Portland cement works, The, by H. Gutteridge 131
Magnesia bricks for lining cement kilns, by Steven Gottlieb 19
Magnesite in kiln linings, by A. W. Comber ... 63
Mills, Direct firing coal 204
" Modified " cement 39
Oxides in Portland cement, Unknown 177
" Pansar " cement 44

PATENTS:

PAGE

Cements 18
Emulsions for concrete... 18
Plant built in six months 11
Porcelain, British standard tests for laboratory ... 162
Pozzolana cements 143
„ Research on, by O. C. Ralston 99
Proportioning raw materials, Methods of, by N. C. Rockwood 221
Rapid-hardening Portland cement, B.S.S. for ... 171
Raw materials by flotation, Refining 82
„ materials, Methods of proportioning, by N. C. Rockwood 221
Refining raw materials by flotation 82
Refractories for cement kilns, by Henry G. Fisk 13, 51, 74
Research on cement 144
„ on Portland cement, by P. H. Bates ... 177
Sampling materials for cement manufacture, by N. C. Rockwood 214
Separation, Fine grinding and air, by B. Nordberg... 185
Set cements, Constituent compounds of 144
Setting of cement under gas pressure 47
Shrinkage of cement 78
" Silicate " cement 44
Slurry filters, Water required in wet process reduced by 183
Special cements 144
„ cements in Sweden and in large American dams, by B. Hellstrom 37
Specification for high-alumina cement, B.S. ... 161
„ for hydrated lime, British standard ... 12
„ for limes 125
„ for Portland and rapid-hardening Portland cements, New B.S. 171
„ for Portland cement, Revision of the Australian 1
Specifications for Portland cements, New United States 173, 178
Sweden and in large American dams, Special cements in, by B. Hellstrom 37
Temperature on high-alumina cement, The effect of, by F. M. Lea... 189
Temperatures, Hardening of aluminious cement at high and low, by Steven Gottlieb 55
Testing cement briquettes, by P. Cloke and W. S. Evans 207
United States specifications for Portland cement, New 173, 178
Water and air in concrete, by C. O. Crane 140
„ Reactions of cement with 177
White cement plant, New 36
„ Portland cement, Raw materials for ... 97

Printed in Great Britain by The Cornwall Press Ltd., Paris Garden, London, S.E.1

UNIVERSITY OF WASHINGTON LIBRARY